

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN 02/00326

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup> B65D83/14 B05B11/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup> B65D83/14 83/00 83/16 83/18 83/22 83/34 83/40 B05B11/02 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CHINESE INVENTION SINCE 1985, CHINESE UTILITY MODELS SINCE 1985

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, PAJ, CNPAT, EPODOC: emulsion, air, screw, gap, climbing, notch, clean etc

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CN2371155Y(DING, Yaowu) 29 MARCH 2000 (29. 03. 00) SEE THE WHOLE DOCUMENT	1-2
Y	CN1136526A(Montaner et al) 27 NOV. 1996(27. 11. 96) SEE THE WHOLE DOCUMENT	1-2
A	CN2314128Y (DING, Yaowu) 14 APRIL 1999 (14. 04. 99) SEE THE WHOLE DOCUMENT	1
A	CN2242132Y(JIN, Genxiu) 11 DEC. 1996 (11.12.96) SEE FIGURE 1,2	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
26. JUNE. 2002 (26. 06.2002)

Date of mailing of the international search report  
18 JUL 2002

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INTERNATIONAL SEARCH REPORT  
Information on patent family member

International application No.  
PCT/CN 02/00326

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
CN-Y-2371155	29.03.2000	NONE	
CN-A-1136526	27.11.1996	CA-A-2174186	14. 10 1996
		EP-AB-0737519	16. 10 1996
		SI-A-9600118	31. 10 1996
		CN-B-1063683B	28.03 2001
		CZ-A-9601074	12. 03 1997
		JP-A-9103718	22. 04 1997
		US-A-5638996	17. 06 1997
		BR-A-9601332	13. 01 1998
		DE-D-69609233D	17.08 2000
		ES-T-2148625T	16. 10 2000
		HK-A-1003201	24. 11 2000
		DE-T-69609233T	01.03 2001
		CZ-B-288430	13. 06 2001
CN-Y-2314128	14.04.1999	NONE	
CN-Y-2242132	11.12.1996	NONE	

## A. 主题的分类

IPC<sup>7</sup> B65D83/14 B05B11/02

按照国际专利分类表(IPC)或者同时按照国家分类和 IPC 两种分类

## B. 检索领域

检索的最低限度文献(标明分类体系和分类号)

IPC<sup>7</sup> B65D83/14 83/00 83/16 83/18 83/22 83/34 83/40 B05B11/02 11/00

包含在检索领域中的除最低限度文献以外的检索文献

1985 年以来的中国发明专利和中国实用新型专利

在国际检索时查阅的电子数据库(数据库的名称和, 如果实际可行的, 使用的检索词)

CNPAT EPODOC WPI PAJ: 空气, 螺纹, 间隙, 乳化, 爬, 清洁等

## C. 相关文件

类 别	引用文件, 必要时, 指明相关段落	相关的权利要求编号
Y	CN2371155Y(丁要武) 29.3 月 2000 (29.03.00) 见全文	1~2
Y	CN1136526A(蒙塔诺等人) 27.11 月 1996 (27.11.96) 见全文	1~2
A	CN2314128Y(丁要武) 14.4 月 1999 (14.04.99) 见全文	1
A	CN2242132Y(金贞秀) 11.12 月 1996 (11.12.96) 见图 1,2	1

☐ 其余文件在 C 栏的续页中列出。☒ 见同族专利附件。

## • 引用文件的专用类型:

“A” 明确叙述了被认为不是特别相关的一般现有技术的文件

“E” 在国际申请日的当天或之后公布的在先的申请或专利

“L” 可能引起对优先权要求的怀疑的文件, 为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件

“O” 涉及口头公开、使用、展览或其他方式公开的文件

“P” 公布日先于国际申请日但迟于所要求的优先权日的文件

“T” 在申请日或优先权日之后公布的在后文件, 它与申请不相抵触, 但是引用它是为了理解构成发明基础的理论或原理

“X” 特别相关的文件, 仅仅考虑该文件, 权利要求所记载的发明就不能认为是新颖的或不能认为是具有创造性

“Y” 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 权利要求记载的发明不具有创造性

“&amp;” 同族专利成员的文件

国际检索实际完成的日期

26.6 月 2002 (26.06.2002)

国际检索报告邮寄日期

18.7 月 2002 (18.07.02)

国际检索单位名称和邮寄地址

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国际申请号

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检索报告中引用的 专利文件	公布日期	同族专利成员	公布日期
CN-Y-2371155	29. 3 月 2000	无	
CN-A-1136526	27. 11 月 1996	CA-A-2174186	14. 10 月 1996
		EP-A-0737519	16. 10 月 1996
		SI-A-9600118	31. 10 月 1996
		CN-B-1063683B	28. 3 月 2001
		CZ-A-9601074	12. 3 月 1997
		JP-A-9103718	22. 4 月 1997
		US-A-5638996	17. 6 月 1997
		BR-A-9601332	13. 1 月 1998
		DE-D-69609233D	17. 8 月 2000
		ES-T-2148625T	16. 10 月 2000
		HK-A-1003201	11 月 2000
		DE-T-69609233T	1. 3 月 2001
		CZ-B-288430	13. 6 月 2001
CN-Y-2314128	14. 4 月 1999	无	
CN-Y-2242132	11. 12 月 1996	无	